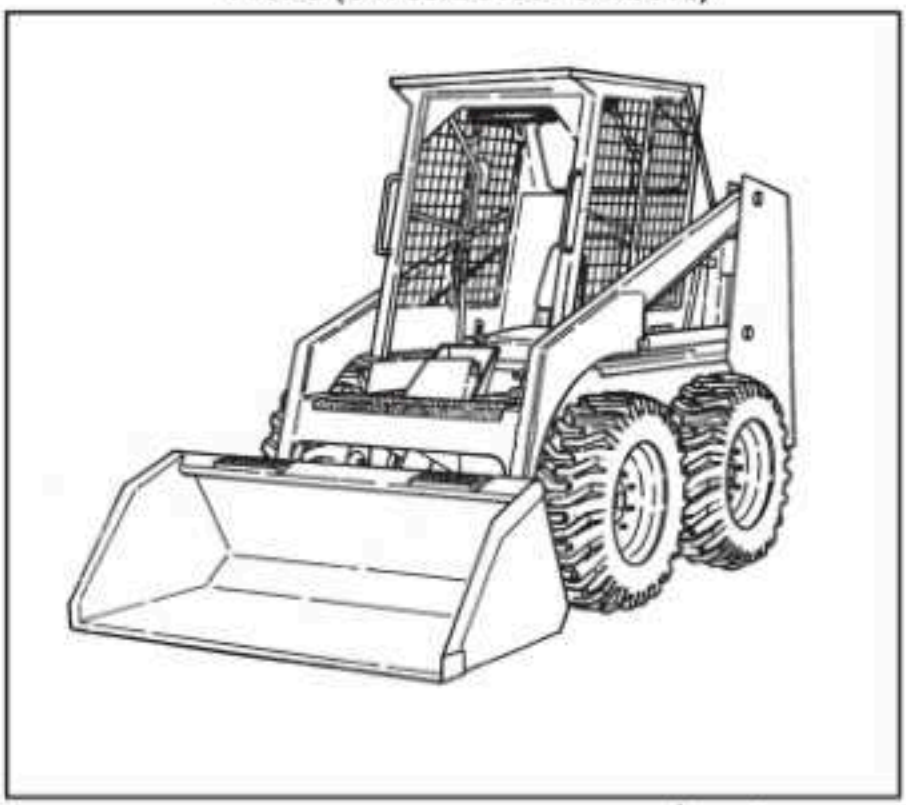
741
742
743
743DS

Operation & Maintenance Manual

741 (S/N 501720001 & Above),
742 (S/N 501820001 – 501822999),
743 (S/N 501920001 & Above) &
743DS (S/N 502551001 & Above)



MELROE
INGERSOLL-RAND

bobcat

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CONTENTS

FOREWORD iii
SAFETY vii
OPERATING INSTRUCTIONS 1
PREVENTIVE MAINTENANCE 23
TROUBLESHOOTING 61
MACHINE SIGN TRANSLATIONS 67
SPECIFICATIONS 75

CALIFORNIA
PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

REFERENCE INFORMATION

Write the correct information for YOUR Bobcat loader in the spaces below. Always use these numbers when referring to your Bobcat loader.

Loader Serial Number ..... _____
Engine Serial Number ..... _____
_____
_____
_____

NOTES: _____
_____
_____
_____
_____
_____

YOUR LOADER DEALER: _____
ADDRESS: _____
PHONE: _____

Melroe Company
P.O. Box 128
Gwinner, ND 58040–0128

Melroe Europe
J. Huysmanslaan 59
B–1651 LOT
BELGIUM

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HYDRAULIC CONTROLS

Foot Pedals

Put your feet on the pedals and KEEP THEM THERE any time you operate the loader.

Two foot pedals (Item 1) **[A]** control the hydraulic cylinders for the lift and tilt functions.

⚠ WARNING

Keep both feet on pedals while operating machine. Failure to do so can cause serious injury.

W–2002–1285

Lift Arm Operation

The left pedal controls the lift arms. Push on the bottom (heel) (Item 2) **[A]** of the pedal to raise the lift arms.

Push on the top (toe) (Item 3) **[A]** of the pedal to lower the lift arms.

Tilt Operation (Bucket)

The right pedal controls the action of the bucket. Push the top (toe) (Item 4) **[A]** of the pedal to tilt the bucket forward.

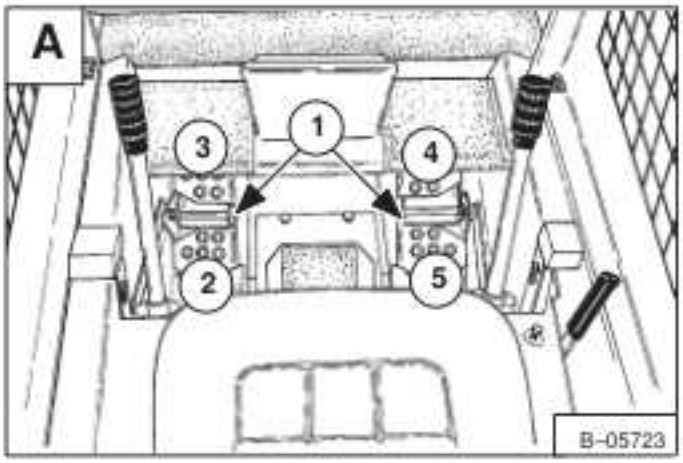
Push the bottom (heel) (Item 5) **[A]** of the pedal to tilt the bucket backward.

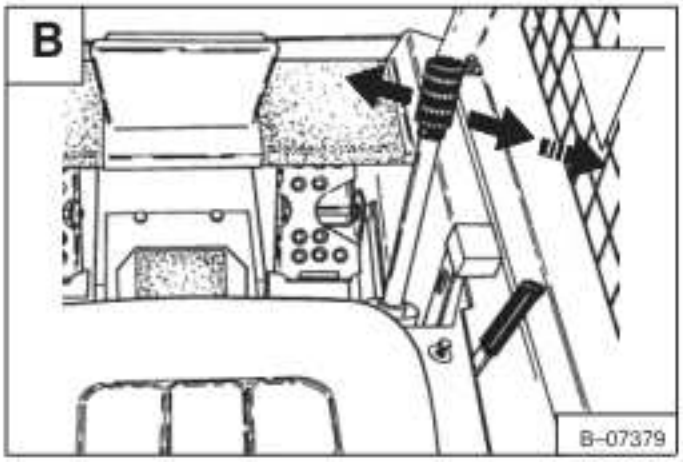
Auxiliary Lever Operation

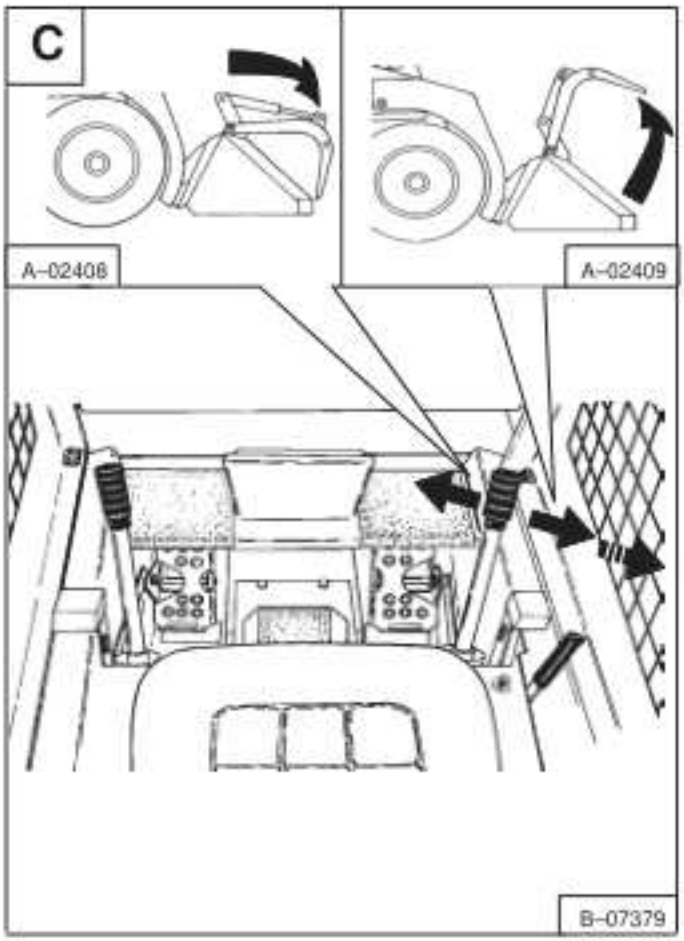
The right steering lever is also the control lever for the auxiliary hydraulics **[B]**. (Refer to Page 65 for lock bolt removal.)

Move the steering lever to the left or to the right to activate the auxiliary hydraulics and operate an attachment **[C]**. (Example: To open or close grapple teeth.)

Move the lever in the opposite direction to reverse the action of the attachment.







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⚠ WARNING

Never use attachments or buckets which are not approved by Melroe Company. Buckets and attachments for safe loads of specified densities are approved for each model. Unapproved attachments can cause injury or death.

W–2052–1285

The dealer can identify, for each model loader, the attachments and buckets approved by Melroe Company. The buckets and attachments are approved for Rated Operating Capacity and for secure fastening to the lift arms.

The Rated Operating Capacity for this loader is shown on a label in the operator cab. (See *SPECIFICATIONS*, Page 76.)

It is determined by using a standard dirt bucket, and material of normal density, such as dirt or dry gravel. If longer buckets are used and load center moves forward and reduces the Rated Operating Capacity. If very dense material is loaded, the volume must be reduced.

Use the correct size attachment for the type and density of material being handled. For safe handling of materials and avoiding machine damage, the attachment (or bucket) should handle a full load without going over the Rated Operating Capacity for the loader. Partial loads make steering more difficult.

Maximum loads to be carried when using a pallet fork are shown in figure **[A]**.

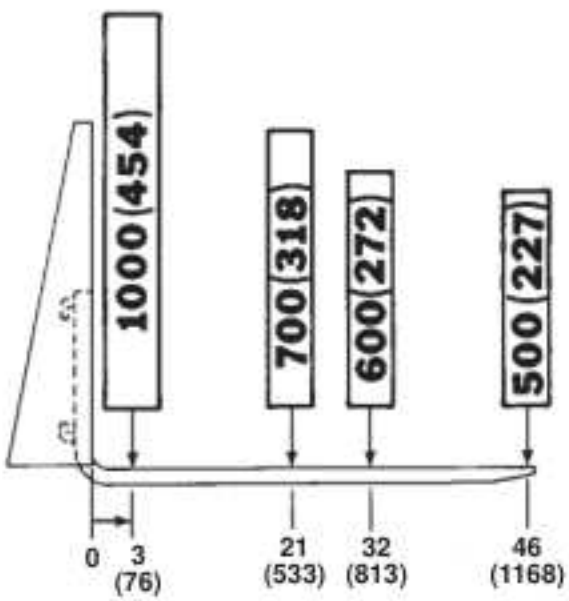
Exceeding the Rated Operating Capacity **[B]** can cause the following problems:

1. Steering the loader may be difficult.
2. Tires may wear faster.
3. There will be a loss of stability.
4. The life of the Bobcat loader will be reduced.

Installation And Removal

The loader is equipped with the Bob–Tach system. The Bob–Tach is used for fast changing of buckets and attachments. See the Installation Instructions to install other attachments.

A

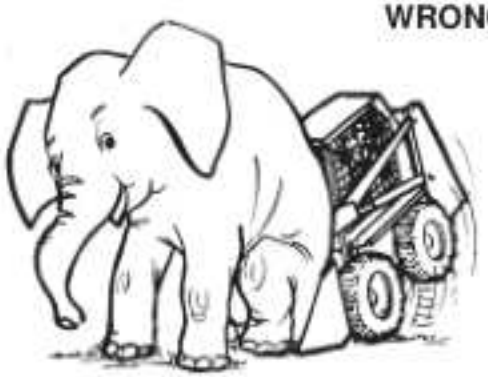


CENTER OF LOAD LOCATION
Inches (mm)

740 SERIES MODELS

6558413

B



B–06587

⚠ WARNING

AVOID INJURY OR DEATH

Do not exceed rated operating capacity. Excessive load can cause tipping or loss of control.

W–2053–0887

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FUEL SYSTEM (Cont'd)

Fuel Filter (741,743 & 743DS Only)

The fuel filter is on the right upright in the engine compartment **[A]** & **[B]**.

See the *SERVICE SCHEDULE* Page 25 for the interval to service the fuel filter.

If there is water in the water trap at the bottom of the filter, loosen the thumb screw (Item 1) **[A]** & **[B]**.

Remove the water trap and clean the water from the trap.

Use the following procedure to replace the fuel filter element:

Clean the fuel filter area. Close the shut–off valve.

Use a wrench to loosen the fuel filter head bolts (Item 2) **[A]** & **[B]**. Remove the water trap and filter element (Item 3) **[A]** & **[B]**.

Replace seals as needed.

Installation: Install the new filter element and water trap and hand tighten only.

Open the shut–off valve (Item 2) **[C]**.

Fuel Filter (742)

The fuel filter (Item 1) **[C]** is in the fuel line by the shut–off valve (Item 2) **[C]**.

See the *SERVICE SCHEDULE* Page 25 for the interval to service the fuel filter.

Clean the area around the fuel filter. Close the shut–off valve (Item 2) **[C]**.

Loosen the nut and remove the tubeline (Item 3) **[C]**.

Remove the element from the valve.

Install a new element with the arrow pointing in the direction of the carburetor.

Connect the tubeline and tighten the nut. Open the valve.

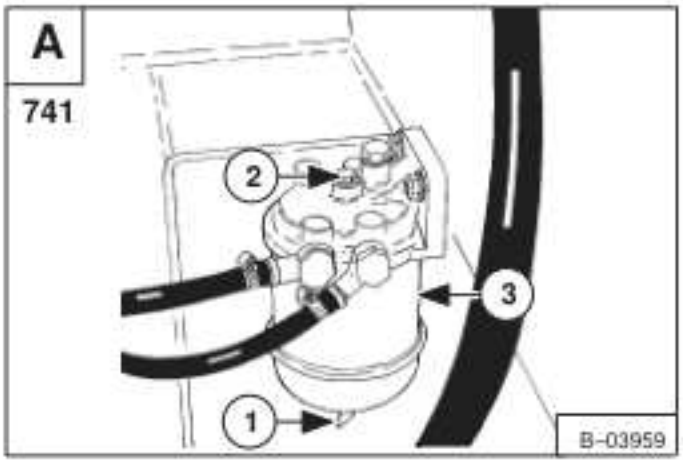
Start the engine and check for leaks.

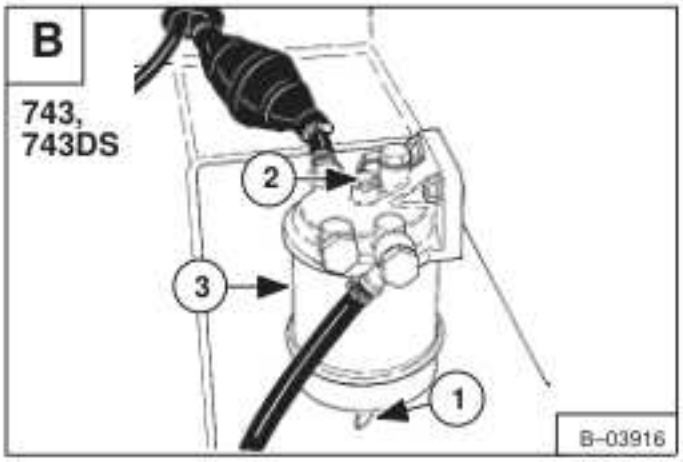
Record the operating hours of the loader on the decal inside the rear door.

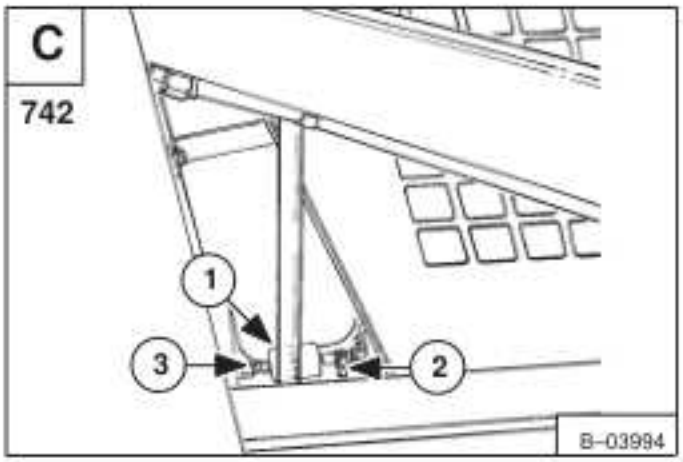
⚠ WARNING

Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire which can result in injury or death.

W–2103–1285







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BEFORE OPERATING THE BOBCAT LOADER

Safety Alert Symbol: This Safety Symbol is used for important safety messages. When you see this symbol follow the safety message to avoid personal injury or death.

WARNING

Operator must have instructions before running the machine. Untrained operators can cause injury or death.

W-2001-1285



B-10731

The Bobcat loader must be in good operating condition before use.

Check all of the items on the Service Schedule under the 8 – 10 hour column.

WARNING

Warnings on the machine in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284

SAFE OPERATION NEEDS A QUALIFIED OPERATOR*

A QUALIFIED OPERATOR MUST DO THE FOLLOWING:

- UNDERSTAND THE WRITTEN INSTRUCTIONS, RULES AND REGULATIONS
  - The written instructions from Melroe Company include the delivery report, Operation & Maintenance Manual and plastic handbook, EMI Safety Manual (available in Spanish) and machine signs (decals).
  - Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may identify a hazard such as utility supply line.
- HAVE TRAINING WITH ACTUAL OPERATION
  - Operator training must consist of a demonstration and verbal instruction. This training is given by your dealer before the loader is delivered.
  - The new operator must start in an area without bystanders and use all the controls until he can operate the loader safely under all conditions of the work area. Always fasten seat belt and lower seat bar before operating.
- KNOW THE WORK CONDITIONS
  - For each material to be handled, the operator must know how to avoid exceeding the rated operating capacity of the loader. For example, in handling certain loose material with a given bucket, he must know whether he can safely take a full load, or only part of a bucket load.
  - The operator must know any prohibited uses or work areas, for example, he needs to know about excessive slopes.
  - Wear tight fitting clothing. Always wear safety glasses when maintaining or servicing loader. Safety glasses, hearing protection or loader special application kits are required for some work. See your dealer about Melroe safety equipment.

* For an operator to be qualified, he must not use drugs or alcoholic drinks which impair his alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he can safely operate a machine.

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